(FILE 'HOME' ENTERED AT 14:13:34 ON 13 DEC 1999)

FILE 'MEDLINE' ENTERED AT 14:15:14 ON 13 DEC 1999

- L1 3252 S HOMOLOGOUS RECOMBINATION
- L2 123 S GAP REPAIR
- L3 40170 S LIBRAR?
- L4 610822 S VITRO
- L5 0 S L1 AND L2 AND L3 AND L4
- L6 13 S L1 AND L3 AND L4
- L7 250742 S VIVO
- L8 17 S L1 AND L3 AND L7
- L9 29 S L6 OR L8
- L10 15 S L1 AND L3 AND RESTRICTION ENZYME
- L11 11 S L10 NOT L9

- L9 ANSWER 1 OF 29 MEDLINE
- TI In **vivo** construction of cDNA **libraries** for use in the yeast two-hybrid system.
- L9 ANSWER 2 OF 29 MEDLINE
- TI Protein evolution by molecular breeding.
- L9 ANSWER 3 OF 29 MEDLINE
- TI Structure-function analyses of thrombomodulin by gene-targeting in mice: the cytoplasmic domain is not required for normal fetal development.
- L9 ANSWER 4 OF 29 MEDLINE
- TI Construction and analysis of a Streptococcus parasanguis recA mutant: homologous recombination is not required for adhesion in an in vitro tooth surface model.
- L9 ANSWER 5 OF 29 MEDLINE
- TI Targeting and retrofitting pre-existing **libraries** of transposon insertions with FRT and oriV elements for in-vivo generation of large quantities of any genomic fragment.
- L9 ANSWER 6 OF 29 MEDLINE CURRENT BIOL. (1998 Dec 3) 8(24) 1300-9.
- TI The univector plasmid-fusion system, a method for rapid construction of recombinant DNA without restriction enzymes.
- L9 ANSWER 7 OF 29 MEDLINE
- TI -Large-scale identification of virulence genes from Streptococcus pneumoniae.
- L9 ANSWER 8 OF 29 MEDLINE
- TI An introduction to the genetics of normal and defective hearing.
- 19 ANSWER 9 OF 29 MEDLINE GENE (JUNE 1998) 212(2) 315-22
- TI Recombination trapping: an in-vivo approach to recover cDNAs encoded in YACs.
- L9 ANSWER 10 OF 29 MEDLINE
- TI Role of rpoS in stress survival and virulence of Vibrio cholerae.
- L9 ANSWER 11 OF 29 MEDLINE
- TI Use of an inducible regulatory protein to identify members of a regulon: application to the regulon controlled by the leucine-responsive regulatory
 - protein (Lrp) in Escherichia coli.
- L9 ANSWER 12 OF 29 MEDLINE
- TI Cardiotrophin-1 and the role of gp130-dependent signaling pathways in cardiac growth and development.
- L9 ANSWER 13 OF 29 MEDLINE
- TI NRF2, a member of the NFE2 family of transcription factors, is not essential for murine erythropoiesis, growth, and development.
- L9 ANSWER 14 OF 29 MEDLINE
- TI Expression and loading of recombinant heavy and light chain homopolymers of rat liver ferritin.
- L9 ANSWER 15 OF 29 MEDLINE

- TI CD40-deficient mice generated by recombination-activating gene-2-deficient blastocyst complementation.
- L9 ANSWER 16 OF 29 MEDLINE

- TI Molecular cloning and restriction mapping of human lymphotoxin gene.
- L9 ANSWER 17 OF 29 MEDLINE
- TI Embryonic stem cells lacking a functional inhibitory G-protein subunit (alpha i2) produced by gene targeting of both alleles.
- L9 ANSWER 18 OF 29 MEDLINE
- TI The proteinase yscA-inhibitor, IA3, gene. Studies of cytoplasmic proteinase inhibitor deficiency on yeast physiology.
- L9 ANSWER 19 OF 29 MEDLINE
- TI A phosphate group at the cos ends of phage lambda DNA is not a prerequisite for in **vitro** packaging: an alternative method for constructing genomic **libraries** using a new phasmid vector, lambda pGY97.
- L9 ANSWER 20 OF 29 MEDLINE
- TI The selective isolation of cosmid clones by homologous CMNLL recombination in Escherichia coli--a cosmid clone containing t complex linkage DNA sequence of mouse was isolated.
- L9 ANSWER 21 OF 29 MEDLINE
- TI Modification and transfer into an embryonal carcinoma cell line of a 360-kilobase human-derived yeast artificial chromosome.
- L9 ANSWER 22 OF 29 MEDLINE PNAS (1990 Apr) 87(8) 3166-9
- TI Improved genetic selection for screening bacteriophage libraries by homologous recombination in vivo.
- L9 ANSWER 23 OF 29 MEDLINE
- TI A new cloning system for Bacillus subtilis comprising elements of phage, plasmid and transposon vectors.
- L9 ANSWER 24 OF 29 MEDLINE
- TI Syrinx 2A: an improved lambda phage vector designed for screening DNA libraries by recombination in vivo.
- L9 ANSWER 25 OF 29 MEDLINE
- TI Cloning of the recA gene of Neisseria gonorrhoeae and construction of gonococcal recA mutants.
- L9 ANSWER 26 OF 29 MEDLINE
- TI Molecular cloning and characterization of the STA2 glucoamylase gene of Saccharomyces diastaticus.
- L9 ANSWER 27 OF 29 MEDLINE
- TI Isolation of a functional human interleukin 2 gene from a cosmid library by recombination in vivo.
- L9 ANSWER 28 OF 29 MEDLINE
- TI Isolation of the SUP45 omnipotent suppressor gene of Saccharomyces cerevisiae and characterization of its gene product.
- L9 ANSWER 29 OF 29 MEDLINE
- TI Selective isolation of cosmid clones by homologous recombination in Escherichia coli.

	(FILE	'USPA	AT' ENTERED AT 08:59:26 ON 14 SEP 1999)					
L1			QUE DNA OR DEOXYRIBONUCL? OR NUCLEIC ACID					
L2			QUE IN VIVO					
L3		3354	S (TWO (3A) HYBRID) OR (TWO-HYBRID)					
L4		QUE ASSAY						
L5			QUE LIBRARY					
L6		423	S L1 AND L2 AND L3 AND L4 AND L5					
L7		QUE VECTOR						
L8		2257	S DNA LIBRARY					
L9		116	S L6 AND L7 AND L8					
L10		98	S TWO HYBRID ASSAY					
L11		0	S TWO HYBRID ASSAY/TI					
L12		22	S TWO HYBRID AND ASSAY/TI					
L13		1365	S CONSTRUCT? AND DNA LIBRARY AND VIVO					
L14		1271	S L13 AND ASSAY					
L15		0	S (CONSTRUCT? AND DNA LIBRARY AND VIVO)/TI					
L16		0	S CONSTRUCT? AND DNA LIBRARY/TI AND VIVO					
L17		3	S DNA LIBRARY/TI					
L18		137	S L1 AND L4 AND L5 AND L3 AND L8					
L19		372	S TWO HYBRID AND ASSAY					
L20		2	S TWO HYBRID/TI AND ASSAY					

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	(FILE 'USPA	AT' ENTERED AT 10:08:18 ON 14 SEP 1999)
L1	684	S TWO HYBRID AND (SYSTEM OR ASSAY)
L2	3773	S (DNA OR NUCLEIC ACID) (3A) LIBRAR? AND CONSTRUC?
L3	155	S L1 AND L2
L4	895	S (DNA OR NUCLEIC ACID) (3A) LIBRAR? (10A) CONSTRUC?
L5	27	S L1 AND L4

au search 12/13/99

(FILE 'HOME' ENTERED AT 12:45:12 ON 13 DEC 1999)

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE, SCISEARCH' ENTERED AT 12:45:26 ON 13 DEC 1999

E ZERVOS/AU

L1 90 S E3-E8

a . 🜓

L2 48 DUPLICATE REMOVE L1 (42 DUPLICATES REMOVED)

L3 13 S L2 AND DNA

L4 3 S L3 AND VIVO

FILE 'STNGUIDE' ENTERED AT 12:46:56 ON 13 DEC 1999

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE, SCISEARCH' ENTERED AT 12:47:45 ON 13 DEC 1999

L5 3 S L2 AND LIBRAR?

L6 1 S L5 NOT L4

L3 ANSWER 1 OF 13 MEDLINE

4 ...

- TI In vivo construction of cDNA libraries for use in the yeast two-hybrid system.
- L3 ANSWER 2 OF 13 MEDLINE
- TI Molecular cloning and characterization of a novel retinoblastoma-binding protein.
- L3 ANSWER 3 OF 13 MEDLINE
- TI Isolation and characterization of Nmi, a novel partner of Myc proteins.
- L3 ANSWER 4 OF 13 MEDLINE
- TI Mxi2, a mitogen-activated protein kinase that recognizes and phosphorylates Max protein.
- L3 ANSWER 5 OF 13 MEDLINE
- TI Murine chromosomal location of five bHLH-Zip transcription factor genes.
- L3 ANSWER 6 OF 13 MEDLINE
- TI Mxil, a protein that specifically interacts with Max to bind Myc-Max recognition sites.
- L3 ANSWER 7 OF 13 MEDLINE
- TI Mapping of two genes encoding members of a distinct subfamily of MAX interacting proteins: MAD to human chromosome 2 and mouse chromosome 6, and MXII to human chromosome 10 and mouse chromosome 19.
- L3 ANSWER 8 OF 13 MEDLINE
- Mxil, a protein that specifically interacts with Max to bind Myc-Max recognition sites [published erratum appears in Cell 1994 Oct 21;79(2):following 388].
- L3 ANSWER 9 OF 13 BIOSIS COPYRIGHT 1999 BIOSIS
- TI Isolation and characterization of a microphthalmia interacting protein that inhibits tyrosinase expression in human melanocytes.
- L3 ANSWER 10 OF 13 BIOSIS COPYRIGHT 1999 BIOSIS
- TI Molecular studies on the function of microphthalmia gene and its role in melanogenesis.
- L3 ANSWER 11 OF 13 BIOSIS COPYRIGHT 1999 BIOSIS
- TI MAX STIMULATION OF MYC DEPENDENT TRANSCRIPTION IS IT INCREASED DNA BINDING OR INCREASED ACTIVATION POTENTIAL?.
- L3 ANSWER 12 OF 13 BIOSIS COPYRIGHT 1999 BIOSIS
- TI DETECTION OF A LOW ABUNDANCE MESSENGER RNA FOR A MEMBRANE PROTEIN ASSOCIATED WITH INTER CELLULAR CHANNELS USING SYNTHETIC OLIGO NUCLEOTIDES.
- L3 ANSWER 13 OF 13 CAPLUS COPYRIGHT 1999 ACS
- TI In vivo construction of DNA libraries

ANSWER 1 OF 3 MEDLINE

1999320745 MEDLINE ACCESSION NUMBER:

DOCUMENT NUMBER:

99320745

TITLE:

In vivo construction of cDNA libraries for use in

the yeast two-hybrid system.

AUTHOR:

Fusco C; Guidotti E; Zervos A S

CORPORATE SOURCE:

Cutaneous Biology Research Center, Massachusetts General Hospital, Harvard Medical School, Charlestown 02129, USA.

SOURCE:

YEAST, (1999 Jun 15) 15 (8) 715-20. Journal code: YEA. ISSN: 0749-503X.

PUB. COUNTRY:

ENGLAND: United Kingdom

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT: ENTRY MONTH:

Priority Journals

199911

ENTRY WEEK:

19991103

We describe a simple and efficient one-step method to make cDNA libraries using homologous recombination in yeast. cDNA from any source, together with a linear vector, is used to transform yeast. Through homologous recombination and gap repair, the cDNA is unidirectionally incorporated into the yeast expression vector in vivo. The cDNA-encoded proteins can then be screened for potential protein-protein interactions with a bait already present in the yeast. This method allows rapid construction and screening of cDNA libraries, even from extremely small amounts of mRNA, and can replace the use of conventional cDNA libraries.

ANSWER 3 OF 3 CAPLUS COPYRIGHT 1999 ACS

ACCESSION NUMBER:

1999:511265 CAPLUS

DOCUMENT NUMBER:

131:140467

TITLE:

In vivo construction of DNA

libraries

INVENTOR(S):

Zervos, Antonis

PATENT ASSIGNEE(S):

General Hospital Corp., USA

SOURCE:

PCT Int. Appl., 47 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				
WO 9940208	Α1	19990812	WO 1999-US2591	19990205

CA, JP

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRIORITY APPLN. INFO.:

US 1998-PV73817 19980205

The invention provides methods of prepg. a plurality of nucleic acid insert mols. The invention also provides methods of constructing a DNA library in vivo. Gap repair cloning using different sizes of overlap of DNA sequences between the Mxil DNA and pJG-4.5 yeast vector was demonstrated. A kit allowing the interchangeable use of a DNA library in more than one application is also provided. Finally, the invention provides a method for screening subjects for the existence of lesions in a gene encoding a particular protein.